

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P756022

Luminaire Tested: LD4D90BD010-EU4DR7070959050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR7070959050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9729.3 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

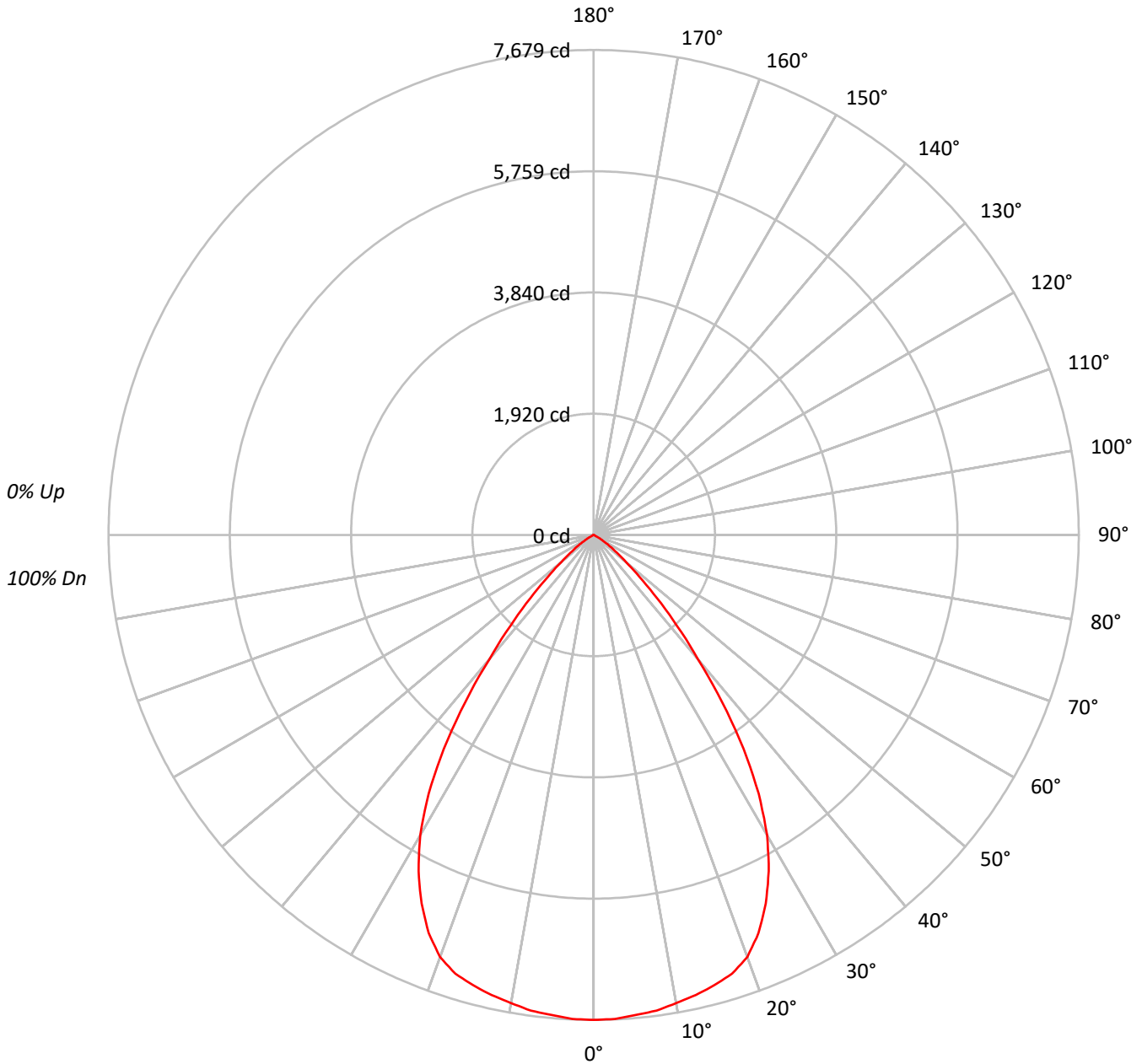


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93																			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85																			
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78																			
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71																			
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65																			
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60																			
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	61	57	56																			
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51																			
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	53	49	48																			
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	839024
5°	836932
10°	835115
15°	834891
20°	826723
25°	776609
30°	692347
35°	552005
40°	366530
45°	219137
50°	113614
55°	59719
60°	21131
65°	362
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 219137 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.7	7.5
10°-20°	2081.3	21.4
20°-30°	2936.1	30.2
30°-40°	2534.6	26.1
40°-50°	1135.1	11.7
50°-60°	297.2	3.1
60°-70°	19.4	0.2
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5743.1	59.0
0°-40°	8277.7	85.1
0°-60°	9709.9	99.8
0°-90°	9729.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9729.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7679	
5°	7631	726
15°	7381	2081
25°	6442	2936
35°	4138	2535
45°	1418	1135
55°	314	297
65°	1	19
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7679.1
2.5°	7670.8
5°	7630.8
7.5°	7597.7
10°	7527.2
12.5°	7463.7
15°	7380.9
17.5°	7285.6
20°	7110.2
22.5°	6821.6
25°	6441.9
27.5°	6001.3
30°	5487.7
32.5°	4859.4
35°	4138.5
37.5°	3343.1
40°	2569.8
42.5°	1952.6
45°	1418.2
47.5°	977.7
50°	668.4
52.5°	461.2
55°	313.5
57.5°	189.2
60°	96.7
62.5°	30.4
65°	1.4
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)